

CIC #: 99EPA SUPERFUND

Billed Date: 02-Oct-2013

Customer Order Number: DW96942125

PASSAIC CPG OVERSIGHT 147757 BZ761  
EPA 598VOUCHER FOR TRANSFERS  
BETWEEN APPROPRIATIONS AND/OR FUNDS (AR 37-1)

Mission Assignment No:

Accounts Of

D.O. Voucher No.

BU. Voucher No.

Bill No.

Paid By Check No.

Collection Vou. No.

27064779

Partial # 76 \*\*\*\*\*Thru 02-Oct-2013

## Billed Office (Mail To):

U S ENVIRONMENTAL PROTECTION AGENCY  
ACCOUNTING OPERATIONS OFFICE  
26 W. MARTIN LUTHER KING DRIVE  
CINCINNATI OH 45268-7002

## Billing Office (Send Remittance To):

USACE FINANCE CENTER G5  
KANSAS CITY DISTRICT G5  
5720 INTEGRITY DRIVE

MILLINGTON TN 38054-5005

## Billed Accounting Classification

068 068 X 8145.0000 2007 00 0000 000000000000 00000

## Billing Accounting Classification

\$343,432.84

096 NA X 3122.0000 G5 08 2416 868 022125 96231

\$343,432.84

Line Item	Moa	Description	Eaid No	Amount
1	CONTRACT - OUTSIDE GOVERNMENT	PVT SCTR CONTRACTUAL ARCHITECTURAL & ENGINEERING SERVICES (AE CONTRACTOR EARNINGS)		\$335,748.00
1	INHOUSE - LABOR	DEPARTMENTAL OVERHEAD COSTS		\$2,260.25
1	INHOUSE - LABOR	GENERAL AND ADMINISTRATIVE OVERHEAD COSTS		\$666.18
1	INHOUSE - LABOR	LABOR		\$4,758.41
<b>Subtotal:</b>				<b>\$343,432.84</b>

## CORPS CERTIFICATION

"I CERTIFY THAT THE ABOVE ARTICLES WERE DELIVERED AND OR THE SERVICES PERFORMED AS STATED AND THAT THE PAYMENT REQUESTED IS CORRECT TO THE BEST OF MY KNOWLEDGE, AND SHOULD BE PAID AND CHARGED TO THE APPROPRIATION(S) OR FUNDS AS INDICATED."

5 Dec 13 Elizabeth A Franklin  
DATE SIGNATURE  
Elizabeth A. Franklin  
Project Manager

<b>Total Billed Amount:</b>	<b>\$343,432.84</b>
<b>Less Partial Amount Paid:</b>	<b>\$0.00</b>
<b>Payment Due Date: 01-Nov-2013</b>	<b>Pay This Amount: \$343,432.84</b>

<b>Funds Authorized:</b>	\$10,000,000.00	<b>CERTIFICATE OF OFFICE BILLED</b> I certify that the above articles were received and accepted or the services performed as stated and should be charged to the appropriation(s) and/or fund(s) as indicated above, or that the advance payment requested is approved and should be paid as indicated.
<b>Total Billed Amount:</b>	\$7,368,220.40	
<b>Prev Billed Amount:</b>	\$7,024,787.56	
<b>Current Billed Amount:</b>	\$343,432.84	
<b>Total Flux Billed:</b>	\$0.00	
<b>Prev Flux Billed:</b>	\$0.00	
<b>Current Flux Billed:</b>	\$0.00	<b>Date:</b>
		Authorized Administrative or Certifying Officer

PROGRESS REPORT

KANSAS CITY DISTRICT  
DIAMOND ALKALI, (LOWER PASSAIC RIVER), NJ  
IA Number: DW96942125

MONTHLY REPORT FOR SEPTEMBER 2013

	Revised Reimbursable (096X3122)	Direct Fund Cite	IA Totals (096X3122)
STATEMENT OF CHARGES FOR PERIOD:			
Total Funds Authorized:	\$10,000,000.00	\$0.00	\$10,000,000.00
Less Total Expenditures: (-)	\$7,368,220.40	\$0.00	\$7,368,220.40
Less Undelivered Orders: (-)	\$2,219,129.88	\$0.00	\$2,219,129.88
Less Commitments: (-)	\$0.00	\$0.00	\$0.00
Funds Available Balance:	\$412,649.72	\$0.00	\$412,649.72

BILLING ACTIVITY (096X3122):

Bill Number: 27064779

Funds Expended During Report Period: \$0.00  
Total Billed to Date: \$7,368,220.40

DIRECT FUND CITE PAYMENTS:

Funds Expended During Report Period: \$0.00  
Total Expended to Date: \$0.00

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Date: 04-OCT-2013  
Time: 16:09:27

PROGRESS REPORT

KANSAS CITY DISTRICT  
DIAMOND ALCANT, (TOWER PASSAIC RIVER), NJ  
IA Number: DW96942125

Bill Number: 27064779  
Bill Invoice Date: 02-OCT-2013

Monthly Billing Amount(096X3122): \$0.00

Monthly Direct Fund Cite Contract Cost(068X8145): \$0.00

Budget Categories	Costs for Current Month	Prior Month's Summary	Project Costs to Date
a Personnel	\$0.00	\$138,239.02	\$138,239.02
b Fringe Benefits	\$0.00	\$73,018.06	\$73,018.06
c Travel	\$0.00	\$11,275.42	\$11,275.42
d Equipment	\$0.00	\$0.00	\$0.00
e Supplies	\$0.00	\$0.00	\$0.00
f Procurement	\$0.00	\$6,835,524.38	\$6,835,524.38
g Construction	\$0.00	\$0.00	\$0.00
h Other	\$0.00	\$177,357.48	\$177,357.48
i Total Direct Charges	\$0.00	\$7,235,414.36	\$7,235,414.36
j Total Indirect Charges	\$0.00	\$132,806.04	\$132,806.04
k TOTAL	\$0.00	\$7,368,220.40	\$7,368,220.40

LABOR BREAKOUT FOR MONTH:

Individual	Location	Function	Hours	Labor Amount
ELIZABETH FRANKLIN	KANSAS CITY DISTRICT	HTRW PROJECT MANAGER	43.00	\$5,315.64
FRANCES C PIMENTEL	KANSAS CITY DISTRICT	PROCUREMENT TECHNICIAN (OA	35.00	\$1,673.15
JANICE M QUILTY	KANSAS CITY DISTRICT	CONTRACT SPECIALIST	7.50	\$693.05
TOTAL LABOR:			85.50	\$7,681.84

## Progress Report for EPA Region II

<b>Site:</b>	<b>Diamond Alkali, Lower Passaic River (Extended Study): RI/FS Oversight, New Jersey</b>			<b>Phase:</b>	<b>RI/FS, OU4</b>
<b>Bill No.:</b>	<b>Partial #76r 27064779</b>	<b>IAG No.:</b> <b>NWK</b>	<b>IAG: DW96942125/BZ761 IAG Award Date: 8/31/07</b>	<b>IAG Expiration Date:</b> <b>3/31/18</b>	<b>Other Corps P2 #147757/FWI 96B4B2</b>
<b>Reporting Period:</b>	<b>From: September 3, 2013</b>	<b>To: October 2, 2013</b>	<b>EPA RPM Stephanie Vaughn</b>		<b>USACE PM Elizabeth Franklin</b>
<b>Work Performed</b>					
<b>Work Performed</b>	<input type="checkbox"/> On 10 September 2013, participated in project progress conference call with EPA/COE/CDM/LB/HQI/BAT.  <input type="checkbox"/> Funding. No funding received during the reporting period. <input type="checkbox"/> On 20 Sep 13, established new MIPR for ERDC (E. Hayter) to support modeling review efforts. Closed older MIPR due to updates needed in office symbols and administrative information.  <input type="checkbox"/> Invoices. TO 0005. <input type="checkbox"/> On 17 Sep 13, had conference call with CDM regarding Invoice #16. <input type="checkbox"/> On 17 Sep 13, completed review and approved of CDM Invoice #16, totaling \$335,748, for period 26 May – 27 Jul 13. The invoice covered two months due to issues with the invoice last reporting period and a resubmittal that was necessary. A detail review confirmed that all errors were corrected and the invoice was acceptable.  <input type="checkbox"/> Schedule. <input type="checkbox"/> On 19 Feb 13, RM 10.9 Path Forward list of milestones last updated. <input type="checkbox"/> On 12 Apr 13, received updated Summary of Deliverables from S. Budney. <input type="checkbox"/> In May 13, the CPG submitted schedule of RM 10.9 activities as part of the final design submittal. <input type="checkbox"/> Mobilization and dredging activity schedules have been provided during weekly progress calls and as plans have changed.  <input type="checkbox"/> Task Order 0005. <input type="checkbox"/> On 23 Sep 13, received WVN 4/ATP 8 for review. <input type="checkbox"/> On 27 Sep 13, provided comment to CDM after review. Anticipate approval during next reporting period.  <input type="checkbox"/> River Mile 10.9. <input type="checkbox"/> On 4 and 10 September 13, participated in weekly managers conference calls to discuss dredging status.  <input type="checkbox"/> On 17 Sep 13, participate in conference call to discuss the background and reference areas.  <input type="checkbox"/> On 11 Sep 13, performed summary level review of SSP2 QAPP and provided comments to S. Vaughn.  <input type="checkbox"/> General coordination and discussion of CSO/SSO Sampling events during the reporting period.  <input type="checkbox"/> Preparation of Progress Report and Project Expenditure spreadsheet.				
<b>Key Meetings This Period</b>	<input type="checkbox"/> Regular project progress calls.  <input type="checkbox"/> Other project calls and meetings as noted throughout this progress report.				

## Progress Report for EPA Region II

**Key Contract Milestones  
Completed to Date**

- ☐ **MPI Task Order 0020: Contract W912DQ-06-D-0006, Expiration Date – 19 Sep 2012**
  - ☐ 21 Sep 07 – Base Task Order, CPG RI/FS Oversight awarded for \$349,601.
  - ☐ 19 Jun 08 – Modification 01, CPG RI/FS Oversight was awarded for \$274,903.
  
- ☐ **MPI Task Order 0010: Contract W912DQ-08-D-0017, Expiration Date – 15 Jan 2014**
  - ☐ 16 Jan 09 – Base Task Order, CPG RI/FS Oversight was awarded for \$65,000.
  - ☐ 5 Mar 09 – Modification 0001 was awarded for \$69,772.
  - ☐ 24 Jun 09/1 Jul 09 - Modification 0002 was awarded for \$49,756 (verbal on 24 Jun/written on 1 Jul).
  - ☐ 3 Aug 09 – Modification 0003 was awarded for \$378,843.
  - ☐ 28 Aug 09: Contract Mod 4 was awarded, totaling \$279,277.
  - ☐ 1 Sep 09, Mod 5 (admin in nature) was signed.
  - ☐ 29 Dec 09, Mod 6 was awarded, totaling \$211,881.
  - ☐ 9 Jul 10, Mod 7 was awarded, totaling \$52,890.
  - ☐ 28 Dec 10, Mod 8 was awarded, totaling \$54,473.
  
- ☐ **CDM Task Order 0014: Contract W912DQ-08-D-0018, Expiration Date – 30 Jul 2014**
  - ☐ 3 Aug 09 – Base Task Order, CPG RI/FS Oversight was awarded for \$160,000 (verbal was given 31 Jul 09)
  - ☐ 22 Aug 09: Contract Mod 1/TO 0014 was issued, totaling \$175,902.
  - ☐ 25 Aug 09; Mod 2 (admin in nature) was signed.
  - ☐ 23 Dec 09; Mod 3 was awarded, totaling \$493,000.
  - ☐ 3 Mar 10; Mod 7 was awarded, totaling \$283,000. (Numbering out of order due to electronic system error.)
  - ☐ 14 May 10; Mod 8 was awarded, totaling \$140,000.
  - ☐ 9 Jun 10; Mod 9 was awarded, totaling \$375,000.
  - ☐ 21 Oct 10, Mod 10 was awarded, totaling \$362,923 (note \$63,000 of this funding is from IA 2023).
  - ☐ 27 Dec 10, Mod 11 was awarded, totaling \$74,426 (note funding split as follows: \$50,000 is Passaic FFS, IA 1975 and \$24,426 is Newark Bay, IA 2023).
  - ☐ 4 May 11, Mod 12 was awarded, totaling \$682,426 (note funding split as follows: \$645,000 is IA 2023 and \$37,426 is IA1975).
  - ☐ 19 Sep 11, Mod 13 was awarded, totaling \$150,000.
  
- ☐ **CDM Task Order 0005; Contract W912DQ-11-D-3004, Expiration Date – 15 Dec 2016**
  - ☐ 15 Dec 11 – Base Task Order, CPG RI-FS Oversight was awarded for \$770,000
  - ☐ 24 Jan 12 – Mod 1 (admin in nature) was signed.
  - ☐ 1 Jun 12 – Mod 2 was awarded, totaling \$1,059,312.
  - ☐ 7 Jan 13 – Mod 3 was awarded, totaling \$1,500,000.
  - ☐ 11 Jul 13 – Mod 4 was awarded, totaling \$1,250,000.

## Progress Report for EPA Region II

<p><b>Contractor Actions/ Accomplishments</b></p>	<p><b>CDM</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Management. CDM participated in progress calls as noted throughout this report, prepared the CDM progress report, invoice and continued management tasks. Additional information may be found in the CDM Progress Report covering period August 25 – September 28, 2013. Information is also contained in daily email reports provided by CDM during specific fieldwork oversight efforts.</li> <li><input type="checkbox"/> CPG Fieldwork Planning Documents.             <ul style="list-style-type: none"> <li>○ On 18 Sep 13, submitted comments on CPG Draft Low Resolution Coring Supplemental Sampling Program (SSP2) QAPP.</li> </ul> </li> <li><input type="checkbox"/> CDM Fieldwork Oversight.             <ul style="list-style-type: none"> <li>○ Prepared Field Change Request 15 to perform oversight and collect split samples during the SSP2 sampling event.</li> <li>○ Continued validation of first and second rounds of high volume split sample data.</li> <li>○ Continued split sample evaluation of CWCM routine data sets and continued preparing and reviewing report tables.</li> <li>○ Continued validation of background split tissue sample data.</li> <li>○ Began field oversight and collection of split samples of the SSP2 sampling event.</li> </ul> </li> <li><input type="checkbox"/> CDM Fieldwork Oversight Reporting.</li> <li><input type="checkbox"/> CDM Data Manager/Website/Digital Library.             <ul style="list-style-type: none"> <li>○ Ongoing improvement of data normalization with historical data sets as needed.</li> <li>○ Began upload and review of background split tissue sample data.</li> <li>○ Initiated upload of CWCM high volume event #2.</li> <li>○ On 20 Sep 13, transferred a copy of the full database to the CPG.</li> </ul> </li> <li><input type="checkbox"/> CSO/SWO Sampling Oversight             <ul style="list-style-type: none"> <li>○ Performed backcheck CSO/SWO QAPP received on 26 Aug 13 to ensure comments were incorporated.</li> <li>○ On 21 Sep 13, performed oversight of the field sampling attempt at Clay Street. Mechanical failure caused the event to be cancelled.</li> </ul> </li> <li><input type="checkbox"/> CPG Risk Assessment</li> <li><input type="checkbox"/> Modeling.             <ul style="list-style-type: none"> <li>○ Continued review of CPG sediment transport modeling code.</li> <li>○ Provided CPG with model inputs and analysis used to develop FFS initial conditions.</li> </ul> </li> <li><input type="checkbox"/> River Mile 10.9 Removal Action Oversight.             <ul style="list-style-type: none"> <li>○ On 25 Sep 13, participated in meeting to discuss the cap design.</li> <li>○ Continue to review design documents as CPG was making and submitting revisions.</li> <li>○ On 27 Aug 13, and 4, 10 and 24 Sep 13, participated in oversight management calls.</li> <li>○ Coordinated and identified a lab to analyze DOC and POC samples using project established methods after issues arose with the DESA lab.</li> <li>○ Prepared revisions to lab task to authorize work and communicated with subcontract labs to schedule and batch the samples to maximize batch density.</li> </ul> </li> <li><input type="checkbox"/> Data Evaluation.             <ul style="list-style-type: none"> <li>○ Continued work on 3D model.</li> <li>○ Continued incorporating GIS layers from CPG into GIS layers and formulating data presentation.</li> <li>○ On 25 Sep 13, participate in conference call to discuss GIS data layers.</li> <li>○ Continued to run the TEQ calculations and began testing ProUCL version 5.</li> <li>○ Continued to formulate data presentation plans and evaluate approaches to visualize and demonstrate site conditions.</li> <li>○ Forwarded figures for sediment concentrations of TCDD illustrating the different interpolation methods throughout the study area using different sets of comparison criteria.</li> <li>○ Finalized and forwarded detail of RM 10.9 area sampling results to EPA.</li> </ul> </li> </ul>

## Progress Report for EPA Region II

### Work, Meetings, Milestones FY2012/2013.

<i>Narrative</i>	<p>Note – See previous Progress Reports for dates of most recent CPG schedules.</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Risk Assessment Technical memoranda. Dates on specific deliverables have been removed; refer to previous progress reports for this information.</li> <li><input type="checkbox"/> CPG Reports/in progress, partial list. Full report status is listed in summary table from S. Budney; updated 12 Apr 13. <ul style="list-style-type: none"> <li>o Benthic Fall 2009 Community Field Report. On <u>29 Jun 11</u>, EPA provided comments to the CPG.</li> <li>o Habitat 2010 Summer Survey Field Report. On <u>13 Jul 11</u>, EPA provided the comments to the CPG.</li> <li>o Spring and Summer 2010 Benthic Community Survey Data Report. On <u>2 Mar 12</u>, CDM submitted comments to EPA.</li> <li>o Avian 2011 Winter/Spring Survey Field Report. On <u>17 Jul 12</u>, draft report received from CPG. On <u>17 Oct 12</u>, CDM submitted comments to EPA.</li> <li>o 2010 Small Forage Fish Tissue Chemistry Data. On <u>18 Jul 12</u>, draft received from CPG. On 27 Nov 12, CDM submitted comments to EPA.</li> <li>o Low Resolution Coring Characterization Report. On <u>19 Sep 11</u>, CDM submitted comments to EPA.</li> <li>o 2011 Caged Bivalve Study Data. On <u>18 Jul 12</u>, draft received from CPG. On 27 Nov 12, CDM submitted comments to EPA.</li> <li>o Bathymetry June 2010 Multibeam Report. On <u>14 Jun 11</u>, EPA provided the CPG with comments.</li> <li>o Draft 2009 and 2010 Sediment Chemistry Data. On <u>23 Dec 11</u>, comments and data evaluation provided to EPA.</li> <li>o Draft 2009 Bioaccumulation Tissue Chemistry Data. On <u>10 Nov 11</u>, CDM submitted comments to EPA.</li> <li>o Draft 2009 Fish and Blue Crab Tissue Chemistry Data. On <u>11 Nov 11</u>, CDM submitted comments to EPA.</li> <li>o FS Work Plan. On <u>17 Jan 11</u>, CDM submitted comments to EPA.</li> <li>o High Volume CWCW QAPP. On <u>14 Dec 12</u> Final QAPP received from CPG (rolling reviews).</li> </ul> </li> <li><input type="checkbox"/> River Mile 10.9 Basis of Design Report (BODR) Milestones. Dates on specific deliverables have been removed; refer to previous progress reports for this information.</li> </ul>
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### Projected Work, Meetings Milestones FY2013. Current Status of Work Products (cont.)

<i>Meetings</i>	<ul style="list-style-type: none"> <li>• Continuation of bi-weekly progress calls and additional coordination meetings/conference calls with CPG.</li> </ul>
<i>Key Milestones Forthcoming</i>	<ul style="list-style-type: none"> <li>• Several of the submittals as noted above do not have milestones for future actions. Full listing with status in the CDM Submittal Summary.</li> </ul>
<b>Issues</b>	
<i>Technical:</i>	<ul style="list-style-type: none"> <li>• Issues are worked in an ongoing basis as discussions held between the EPA and CPG.</li> </ul>
<i>Schedule</i>	<ul style="list-style-type: none"> <li>• CPG project schedule not fully updated at this time. Information updates provided through conference calls and CPG monthly reports. Schedule focus is on the work at RM 10.9.</li> </ul>
<i>Funding:</i>	<ul style="list-style-type: none"> <li>• None at this time.</li> </ul>

# Progress Report for EPA Region II

IAG Summary: Technical Assistance Amendment Funding						
USACE	Direct Fund Cite	Amend #	Date	USACE	Direct Fund Cite	Total IAG
410,000	0	Initial	9/6/07	-	-	\$ 410,000
290,000	0	1	6/3/08	-	-	\$700,000
75,000	0	2	12/31/08	-	-	\$775,000
85,000	0	3	2/19/09	-	-	\$860,000
50,000	0	4	6/23/09	-	-	\$910,000
576,665	0	5	7/27/09	-	-	\$1,486,665
500,000	0	6	8/7/09	-	-	\$1,986,665
789,000	0	7	12/1/09	-	-	\$2,775,665
300,000	0	8	2/24/10	-	-	\$3,075,665
140,000	0	9	4/27/10	-	-	\$3,225,665
510,000	0	0	5/24/10	-	-	\$3,735,665
400,000	0	0	9/14/10	-	-	\$4,135,665
745,000	0	0	4/8/11	-	-	\$4,880,665
150,000	0	0	8/31/11	-	-	\$5,030,665
850,000	0	0	11/12/11	-	-	\$5,880,665
1,124,335	0	0	5/14/12	-	-	\$7,005,000
1,650,000	0	0	12/6/12	-	-	\$8,655,000
1,345,000	0	0	5/31/12	-	-	\$10,000,000



## Progress Report for EPA Region II

## Summary of Funds Spent Per Activity &amp; Funding Remaining

Description	Funds for Activity	Funds Disbursed this Month	Funds Disbursed to Date	Funds Remaining
MPI: Contract W912DQ-06-D-0006; Task Order 0020; awarded 21 Sep 07	\$349,601.00	\$0.00	\$349,601.00	\$0.00
MPI: Contract W912DQ-06-D-0006; Task Order 0020/Mod 1; awarded 19 Jun 08	\$274,903.00	\$0.00	\$267,213.93	\$7,689.07
MPI: Contract W912DQ-08-D-0017; Task Order 0010; awarded 16 Jan 09	\$65,000.00	\$0.00	\$65,000.00	\$0.00
MPI: Contract W912DQ-08-D-0017; Task Order 0010/Mod 1; awarded 5 Mar 09	\$69,772.00	\$0.00	\$69,772.00	\$0.00
MPI: Contract W912DQ-08-D-0017; Task Order 0010/Mod 2; awarded 24 Jun 09	\$49,756.00	\$0.00	\$49,756.00	\$0.00
MPI: Contract W912DQ-08-D-0017; Task Order 0010/Mod 3; awarded 3 Aug 09	\$378,843.00	\$0.00	\$378,843.00	\$0.00
MPI: Contract W912DQ-08-D-0017; Task Order 0010/Mod 4; awarded 28 Aug 09	\$279,277.00	\$0.00	\$279,277.00	\$0.00
MPI/LBG: Contract W912DQ-08-D-0017; Task Order 0010/Mod 6; awarded 29 Dec 09 <sup>Note 1</sup>	\$211,881.00	\$0.00	\$211,881.00	\$0.00
MPI/LBG: Contract W912DQ-08-D-0017; Task Order 0010/Mod 7; awarded 9 Jul 10	\$52,892.00	\$0.00	\$52,892.00	\$0.00
MPI/LBG: Contract W912DQ-08-D-0017; Task Order 0010/Mod 8; awarded 28 Dec 10	\$54,473.00	\$0.00	\$19,780.45	\$34,692.55
<b>CDM: Contract W912DQ-08-D-0018; Task Order 0014/Base Contract; awarded 6 Aug 09 (verbal 31 Jul 09)</b>	<b>\$160,000.00</b>	<b>\$0.00</b>	<b>\$160,000.00</b>	<b>\$0.00</b>
CDM: Contract W912DQ-08-D-0018; Task Order 0014/Mod 1; awarded 22 Aug 09	\$175,902.00	\$0.00	\$175,902.00	\$0.00
CDM: Contract W912DQ-08-D-0018; Task Order 0014/Mod 3; awarded 23 Dec 09 <sup>Note 2</sup>	\$493,000.00	\$0.00	\$493,000.00	\$0.00
CDM: Contract W912DQ-08-D-0018; Task Order 0014/Mod 7; 3 Mar 10 <sup>Note 3</sup>	\$283,000.00	\$0.00	\$283,000.00	\$0.00
CDM: Contract W912DQ-08-D-0018; Task Order 0014/Mod 8; awarded 14 May 10	\$140,000.00	\$0.00	\$140,000.00	\$0.00
CDM: Contract W912DQ-08-D-0018; Task Order 0014/Mod 9; awarded 9 Jun 10	\$375,000.00	\$0.00	\$375,000.00	\$0.00
CDM: Contract W912DQ-08-D-0017\8; Task Order 0014/Mod 10; awarded 21 Oct 10 <sup>Note 4</sup>	\$299,923.00	\$0.00	\$299,923.00	\$0.00
CDM: Contract W912DQ-08-D-0018; Task Order 0014/Mod 11; awarded 27 Dec 10 <sup>Note 5</sup>	See note 5	\$0.00	\$0.00	\$0.00
CDM: Contract W912DQ-08-D-0018; Task Order 0014/Mod 12; awarded 4 May 11 <sup>Note 6</sup>	\$645,000.00	\$0.00	\$645,000.00	\$0.00
CDM: Contract W912DQ-08-D-0018; Task Order 0014/Mod 13; awarded 19 Sep 11	\$150,000.00	\$0.00	\$137,307.00	\$12,693.00
<b>CDM: Contract W912DQ-11-D-3004; Task Order 0005/ Base TO; awarded 15 Dec 11</b>	<b>\$770,000.00</b>	<b>\$0.00</b>	<b>\$770,000.00</b>	<b>\$0.00</b>
CDM: Contract W912DQ-11-D-3004; Task Order 0005/ Mod 2; awarded 1 Jun 12	\$1,059,312.00	\$0.00	\$1,059,312.00	\$0.00
CDM: Contract W912DQ-11-D-3004; Task Order 0005/ Mod 3; 7 Jan 13	\$1,500,000.00	\$335,748.00	\$553,064.00	\$946,936.00
CDM: Contract W912DQ-11-D-3004; Task Order 0005/ Mod 4; 11 Jul 13	\$1,200,000.00	\$0.00	\$0.00	\$1,200,000.00
Contract Funds Available	\$12,030.00	\$0.00	\$0.00	\$12,030.00
<b>Subtotal - Summary of Contracts; awarded and avail. (total reflects blocks e + f on Page 2 IAG)</b>	<b>\$9,049,565.00</b>	<b>\$335,748.00</b>	<b>\$6,835,524.38</b>	<b>\$2,214,040.62</b>

## Progress Report for EPA Region II

Description	Funds for Activity	Funds Disbursed this Month	Funds Disbursed to Date	Funds Remaining
Kansas City Corps In-House Labor/Travel - 17 Mile	\$704,997.57	\$6,147.87	\$340,630.76	\$349,644.06
Kansas City Corps In-House Labor/Travel - RM 10.9		\$1,536.97	\$14,722.75	
Superfund M&S Fee - 17 Mile	\$150,650.00	\$0.00	\$94,991.69	\$50,975.66
Superfund M&S Fee - RM 10.9		\$0.00	\$4,682.65	
MIPR/ERDC - Hayter/Gailani; CPG Modeling Support	\$58,287.43	\$0.00	\$58,287.43	\$0.00
MIPR/ERDC - Estes; Decon Technology Support	\$24,500.00	\$0.00	\$19,380.74	\$5,119.26
MIPR/ERDC - Hayter (replaces MIPR above/updated office symbols)	\$12,000.00	\$0.00	\$0.00	\$12,000.00
<b>Subtotal - Summary of Labor/M&amp;S Fee</b>	<b>\$950,435.00</b>	<b>\$7,684.84</b>	<b>\$532,696.02</b>	<b>\$417,738.98</b>
<b>Grand Total - Contract/Corps</b>	<b>\$10,000,000.00</b>	<b>\$343,432.84</b>	<b>\$7,368,220.40</b>	<b>\$2,631,779.60</b>

## Notes on above table:

Note 1: MPI/LBG TO 0010 Mod 5 is admin, zero dollar mod

Note 2: CDM TO 0014 Mod 2 is admin, zero dollar mod.

Note 3: CDM TO 0014 Mods 4, 5, & 6 were skipped in system numbering

Note 4: CDM TO 0014/Mod 10 totals \$362,923; \$63,000 is Newark Bay funding for IT transition.

Note 5: CDM TO 0014/Mod 11 totals \$74,426; \$50,000 is Passaic FFS funding and \$24,426 is Newark Bay funding for IT transition.

Note 6: CDM TO 0014/Mod 12 totals \$682,426; \$37,426 is Passaic FFS funding for IT/transition.

## IAG Scope of Work Summary (block 13 of IAG)

This amendment obligates \$XX (see amounts above for base and amendments) to the U.S. Army Corps of Engineers - Kansas City District to provide/continue oversight of the CPG's performance of Remedial Investigation and Feasibility Study at the Diamond Alkali OU4 Superfund Site (EPA ID: NJD980528996)

## Project Delivery Team

Name	Contact Information	Responsibility
Beth Franklin	(816) 389-3581 Cell: (816) 695-5797	Project Manager
Josh Hill	(816) 389-3803	Contract Specialist
Shelley Thomas	(816) 389-3842	Contracting Officer
Jason Shippy	(816) 389-3721	Attorney
Julia Kisser	(816) 389-3874	COR

Prepared by: Elizabeth Franklin  
Project Manager  
9 December 2013

## PROGRESS REPORT

Site Name: Lower Passaic River Restoration Project and & Superfund Site  
Project: Task Order 6424.005 CPG Oversight  
Prepared by: Frank Tsang  
Representing: CDM Federal Programs Corporation (CDM Smith)  
Date: July 12, 2013 (revised December 24, 2014)  
Reporting Period: May 26, 2013 to June 29, 2013

The following structures reflect the WBS from TO 6424.005.

1. **Progress Made this Reporting Period** – CDM Smith performed the following activities during this period:

### **WAD 1, Work Order 1 – Project Management and Administration**

#### 1.1.1 Project Management

- CDM Smith performed project management including staffing, financial monitoring, invoicing, and participated in conference calls.
- On June 14, 2013, CDM Smith attended a conference call with the USACE and EPA to discuss technical scope of work included in the proposal dated May 31, 2013. On June 17, 2013, a conference call was held to answer contract questions posed by the USACE on the proposal.

#### 1.1.2 Project Support Documentation & Administration

- CDM Smith prepared and submitted the monthly progress report.

#### 1.1.3 Subcontract Administration

- CDM Smith processed subcontractor invoices (HDR | HQI and Shealy).

#### 1.1.4 Project Communication

- On June 4 and 27, 2013, CDM Smith participated in biweekly conference calls.

### **WAD 1, WO2 – Community Relations/Public Website**

#### 1.2.1 Public Meeting Support

- On June 5, 2013, CDM Smith attended the Lyndhurst public meeting.

### **WAD 1, WO3 – Senior Technical Advisors**

#### 1.3.1 Senior Technical Advisor

- Bob Ambrose, Alan Blumberg, Roger Flood and Dominic Di Toro are on board as TAC members; each subcontracted directly with CDM Smith.
- No activity.

Item	TAC Member	TAC Member Subcontract Ceiling*	Authorized Funding	Payment this Period	Payment to Date	Remarks
1	Ambrose	\$5,000	\$0	\$0	\$0	POP expires

Item	TAC Member	TAC Member Subcontract Ceiling*	Authorized Funding	Payment this Period	Payment to Date	Remarks
						8/15/2013
2	Blumberg	\$6,200	\$0	\$0	\$0	POP expires 8/1/2013
3	Flood	\$1,042	\$0	\$0	\$0	POP expires 11/30/2016
4	Di Toro	\$8,200	\$0	\$0	\$0	POP expires 11/30/2016
Total		\$20,442	\$0	\$0	\$0	

\*Subcontract Ceiling represents "available subcontract capacity" on each TAC member's respective subcontract. A subcontract modification is required when the dollar value of requested work exceeds a TAC Member's Subcontract Ceiling.

### **WAD 1, WO4 – Technical Support**

#### **1.4.1 Technical Support**

- The 2 hours inadvertently charged to WE 2.4.1 in May were transferred to WE 1.4.1 in June and were incurred for discussion of SSP2 sampling planning call.

### **WAD2, Work Order 2 - Work Planning: Oversight & Communication**

#### **2.2.1 Technical Communication**

- ODCs were incurred for an overnight shipment.

#### **2.2.2 CPG Planning Documents Review**

- Completed review of field modifications received from the CPG on April 19, 2013.

### **WAD2, Work Order 3 – Field Work Sampling Oversight**

#### **2.3.1 CDM Smith Work Plan Preparation (QAPP & HASP)**

- CDM Smith prepared Field Change Request #14 and submitted it on June 12, 2013 which modifies CDM Smith's QAPP Addendum 11 dated December 13, 2012 and explains how The Louis Berger Group, Inc. split sample of the HV CWCM filtrate sample collected after the PUF filter will be used to evaluate the Passaic River split samples.

#### **2.3.2 Water Column, Chemical Data Oversight**

- On June 20, 2013, participated in a logistics conference call to discuss the HV CWCM sampling event with the CPG, EPA and The Louis Berger Group, Inc.
- On June 26 and 27, 2013, performed oversight of the HV CWCM sampling in the Passaic River
- Continued validation of first round of high volume split sample data
- Continued split sample evaluation of CWCM data sets

#### **2.3.3 RM 10.9 Oversight**

- No activity

#### 2.3.4 LRC Supplemental Sampling Oversight

- Continued statistical evaluation of split sample results and report preparation

#### 2.3.6 Background Sampling Oversight

- Performed QA review of split sample data validation and EDD.
- Loaded and QC checked split sample data into Passaic River Database.
- Shipping OCDs incurred

#### 2.3.7 LRC SSP2 Oversight

- Performed oversight of the SSP2 probing field work June 3 through 6, 2013.

### **WAD2, Work Order 4 – Report/Products: Oversight and Communications**

#### 2.4.1 CPG Report Review

- The 2 hours inadvertently charged to this WE (WE 2.4.1) in May were reversed. The hours were transferred to WE 1.4.1 for discussion of SSP2 sampling planning call.

### **WAD 2, Work Order 5 – Data Manager**

#### 2.5.1 Data Manager (Data/Information Transfer)

- Generated additional summary tables of historical data sets for QC review of valid value associations
- Ongoing improvement of data normalization across historical data sets as needed
- Uploaded CWCM routine event 5 data received from CPG to Passaic River Database
- Uploaded background sediment sample data received from the CPG to the Passaic River Database

#### 2.5.2 Database and Website Management

- Ongoing webpage support/and Enterprise interface support.
- Continued to provide webpage management support updating pages and announcements at the direction of the EPA.

### **WAD 2, Work Order 6 – CSO/SWO Sampling Oversight**

#### 2.6.1 Planning Documents Review

- Initiated review of QAPP Field Modification dated June 6, 2013.
- Reviewed and discussed with EPA RPM contingency plans for altering requirements for initiating wet weather sampling event and Tierra's suggestion to allow for dry weather sampling.
- On June 10, 2013 submitted comments on the CSO-SWO LSM Method Blank Evaluation Report dated May 23, 2013.

#### 2.6.2 CDM Work Plan Preparation

- No activity

#### 2.6.3 Laboratory Analysis and Coordination

- Transferred Federal Express charges to WE 2.3.2 and WE 2.3.4.

#### 2.6.4 Field Oversight and Collection of Split Samples

- Performed field oversight on June 10 and 11, 2013 of the Phase I sampling at Clay Street.

#### 2.6.5 Split Sample Comparison Report

- No activity

### **WAD 2, Work Order 7 – RM 10.9 Removal Action Oversight**

#### 2.7.1 Report Review/Technical Support

- On May 31, 2013 and June 26, 2013, participated in oversight planning calls with EPA.
- Completed review of the Draft Perimeter Air and Noise Monitoring Plan
- On June 3, 2013, provided additional comments on the RM 10.9 cap design and memorandum from Dr. Reible.
- On June 13, 2013, provided comments on the RM 10.9 Final Design Response to Comments and LTMM document.

#### 2.7.2 Remedial Action Oversight

- On May 29, 2013, performed oversight of the geophysical survey activities to identify the location of the two United Water Lines and the cable line in the RM 10.9 removal area.
- On June 24 and 25, 2013, performed oversight of the RM 10.9 pre-dredge baseline water quality monitoring activities.

#### 2.7.3 Sampling Analysis

- No activity

### **WAD 3, Work Order 1 - Modeling Support**

- Project Management & Support
  - No activity
- Bi-Weekly Conference Calls
  - June 4 and 27, 2013 Bi-weekly calls
- Project Review Conf Calls & Mod Meetings
  - No activity
- Transfer of Model Codes/Support
  - A. ECOMSEDZLJS Model Support
    - Work to resolve errors calculated by the CPG in their model linkage files (gcm\_sedtran, gcm\_tran)
  - B. ST-SWEM & RCATOX Models
    - No Activity
  - C. Misc. Support 2010
    - Check CPG transfer of codes, inputs, and outputs for sediment transport projections and organic carbon simplification.
- Field Oversight
  - June 6, 2013 call to discuss the 17 mile RI

- Modeling Oversight
  - Review of Fate and Transport Modeling – June 3, 2013 call to prep for June 5 meeting between the EPA and CPG

### **WAD 3, Work Order 2 - Modeling Collaboration with CPG**

- Project Management and Support
  - No activity
- Weekly Conf Calls/Meetings with CPG
  - June 4, 2013 call with Ed Garland, Eugenia Naranjo, James Wands regarding differences in bed elevation changes between the sediment transport, carbon and contaminant models
  - June 5, 2013 call with Ed Garland, James Wands, and Rooni Mathew regarding differences in bed elevation changes and sediment bulk density between the sediment transport, carbon and contaminant models
  - June 10, 2013 call with Ed Garland, Eugenia Naranjo, James Wands, Rafael Canizares, and Rooni Mathew to discuss wetting and drying issue with the CPGs decoupled hydrodynamics/sediment transport application.
  - June 11, 2013 call with Ed Garland, James Wands, Rafael Canizares, and Rooni Mathew to discuss differences in bed elevation changes between the sediment transport, carbon and contaminant models and wetting and drying issues with the CPGs decoupled hydrodynamics/sediment transport application.
  - June 18, 2013 call with Ed Garland and Rooni Mathew regarding SedFLUME data
  - June 20, 2013 call with Ed Garland and Rooni Mathew regarding model question about gcm\_sedtran model output
  - June 21 call with Ed Garland and Rooni Mathew regarding differences in the model timestamp between gcm\_tran (hydrodynamic) and gcm\_sedtran (sediment transport) outputs
  - June 21, 2013 call and webinar with Ed Garland, Grace Chang and Rooni Mathew regarding Hackensack River ADCP data analyses, and ABS TSS relationships used for the entire PWCM dataset.
- Monthly Technical Meetings
  - Follow up on meeting action items
- Identify Model Differences
  - No activity
- Data Action Items
  - SEI analysis of the Hackensack ADCP data collected during the Spring 2010 PWCM, and HDR | HQI review of results.
- Model Action Items
  - Investigate differences in bed elevation change between sediment transport, carbon and contaminant models observed by the CPG. There are some differences in our application related to stability criteria (you can't erode through an entire sediment layer within a timestep), but the differences observed by the CPG are generally related to issues with wetting and drying in the de-coupled hydrodynamic/sediment transport approach they are using.

- Communication with USEPA Project Team
  - Communication on project status with EPA and CDM Smith

#### **WAD 4, Work Order 3 – Review/Coordinate CPG Risk Assessment**

- No activity.

#### **WAD 5, Work Order 2 – Data Evaluation**

- On June 6, 2013 participated in a webinar with EPA to discuss applicability of 3D proof of concept model to support ongoing evaluation of site conditions. Discussed initial draft river mile EPC tables generated for sediment samples. Identified additional GIS layers need from CPG (e.g. probing, mudflats, and etc.) to assist in data evaluation and visualization. Identified action items for coming month.
- Began work on detailing 3D model
- Began incorporating GIS layers received from CPG into CDM Smith GIS.
- Continued to formulate data presentation plans and evaluate potential approaches to better visualize and demonstrate site conditions.
- Created detailed river segment figures for sediment concentrations of TCDD illustrating the different interpolation methods throughout the study area.
- Created proof of concept 3D model to support data evaluation.
- Generated total PCB, total dioxin and total PAH values from database by event for inclusion in the EPC tables. This was necessary because the total values as reported from the laboratory were not adjusted after validation. This need was identified in past CPG reports.
- Generated draft EPC table by river mile for sediments, surface water and tissue samples for select contaminants.
- Initiated work with tissue sample results to generate exceedance tables for human health risk assessment evaluation.
- Exported initial grain size data from Passaic River Database to be used for data visualization (GIS and 3D model). These data will require some interpretation, from sieve sizes to USGS classifications (e.g. sand, silt, clay, and etc.) prior to being merged with the GIS/3D geo-database.

2. **Anticipated Problems and Recommended Solutions** – None.

3. **Problems Resolved** – N/A.

4. **Upcoming Events/Activities Planned** – CDM Smith will continue working on the following activities:

- Participate in biweekly calls
- Review CPG and Tierra documents when received
- Continue database management data upload
- Provide support on CSO/SWO oversight
- Provide support on RM 10.9 oversight
- Continue to formulate data presentation plans.



5. **Key Staffing Changes** – None

6. **Budget** – See attached cost spreadsheet for negotiated budget, funded amount, and expenditure details.

7. **Deliverables Submitted**

(For deliverables submitted prior to January 3, 2013, please see the April 2013 and earlier monthly reports.)

<b>Title</b>	<b>Date Submitted</b>
Submitted comments on River Mile 10.9 90 Percent Design	January 3, 2013
Submitted comments on RM 10.9 QAPP Addendum D	January 23, 2013
Submitted CDM Smith Field Change Request #13 - oversight of CPGs QAPP Addendum D Field Effort	February 13, 2013
Submitted comments on Updated Porewater SOPs RM 10.9 QAPP Addendum D	February 19, 2013
Submitted comments on Tierra's Validated Rinse Blank Results for the CSO/SWO sampling program	February 28, 2013
Submitted comments on Porewater SOP RM 10.9 QAPP Add D	March 1, 2013
Submitted comments on Draft Final RM 10.9 Design	March 22, 2013
Submitted comments on GW Seepage Measurement Field Mod	March 25, 2013
Submitted comments on CSO/SWO QAPP Revision 2	April 4, 2013
Submitted comments on RM 10.9 design draft WQMP	April 24, 2013
Submitted comments on Fall 2009 Benthic Invertebrate Community Survey and Benthic Field Data Collection, dated April 12, 2013	April 24, 2013
Submitted comments on Habitat Identification Survey Data Report, Fall 2010 Field Effort, dated April 12, 2013	April 24, 2013
Submitted comments on RM 10.9 Draft Water Quality Monitoring Plan	April 26, 2013
Submitted comments on RM 10.9 Removal Action Final Design Report	May 17, 2013
Submitted comments on RM 10.9 Draft Perimeter Air and Noise Monitoring Plan	May 23 & 28, 2013
Submitted comments on RM 10.9 Waterline Setback	May 24, 2013
Submitted comments on Tierra CSO/SWO Forensic Sample Results	May 16, 2013
Submitted comments on CPG Field Modification Form 130522-1 SSP2 Sediment Probing	May 29, 2013
Submitted comments on RM 10.9 Cap Design Review & Waterfront Development Permit Equivalent Conditions	June 3, 2013
Submitted comments on CSO-SWO LSM Method Blank Evaluation Report dated May 23, 2013	June 10, 2013
Submitted CDM Smith Field Change Request #14 – HV CWCM filtrate sample	June 12, 2013
Submitted comments on the RM 10.9 Final Design Response to Comments	June 13, 2013

Title	Date Submitted
Submitted comments on the RM 10.9 Final Design LTMM	June 13, 2013

## PROGRESS REPORT

Site Name: Lower Passaic River Restoration Project and & Superfund Site  
Project: Task Order 6424.005 CPG Oversight  
Prepared by: Frank Tsang  
Representing: CDM Federal Programs Corporation (CDM Smith)  
Date: August 15, 2013 (revised December 24, 2014)  
Reporting Period: June 30, 2013 to July 27, 2013

The following structures reflect the WBS from TO 6424.005.

1. **Progress Made this Reporting Period** – CDM Smith performed the following activities during this period:

### **WAD 1, Work Order 1 – Project Management and Administration**

#### 1.1.1 Project Management

- CDM Smith performed project management including staffing, financial monitoring, invoicing, and participated in conference calls.

#### 1.1.2 Project Support Documentation & Administration

- CDM Smith prepared and submitted the monthly progress report.

#### 1.1.3 Subcontract Administration

- CDM Smith processed subcontractor invoices (HDR| HQI, Shealy Environmental, and Axys Analytical).
- Performed subcontract management activities.

#### 1.1.4 Project Communication

- On July 16, 2013, CDM Smith participated in a biweekly conference call.

### **WAD 1, WO2 – Community Relations/Public Website**

#### 1.2.1 Public Meeting Support

- No activity.

### **WAD 1, WO3 – Senior Technical Advisors**

#### 1.3.1 Senior Technical Advisor

- Bob Ambrose, Alan Blumberg, Roger Flood and Dominic Di Toro are on board as TAC members; each subcontracted directly with CDM Smith.
- No activity

Item	TAC Member	TAC Member Subcontract Ceiling*	Authorized Funding	Payment this Period	Payment to Date	Remarks
1	Ambrose	\$5,000	\$0	\$0	\$0	POP expires 8 / 15 / 2013
2	Blumberg	\$6,200	\$0	\$0	\$0	POP expires

Item	TAC Member	TAC Member Subcontract Ceiling*	Authorized Funding	Payment this Period	Payment to Date	Remarks
						8 / 1 / 2013
3	Flood	\$1,042	\$0	\$0	\$0	POP expires 11 / 30 / 2016
4	Di Toro	\$8,200	\$0	\$0	\$0	POP expires 11 / 30 / 2016
Total		\$20,442	\$0	\$0	\$0	

\*Subcontract Ceiling represents “available subcontract capacity” on each TAC member’s respective subcontract. A subcontract modification is required when the dollar value of requested work exceeds a TAC Member’s Subcontract Ceiling.

## **WAD 1, WO4 – Technical Support**

### 1.4.1 Technical Support

- No activity.

## **WAD 2, Work Order 2 - Work Planning: Oversight & Communication**

### 2.2.1 Technical Communication

- Participated in technical calls with analytical subcontract laboratories to discuss work processes across multiple work orders; field oversight (first and second round of CWCM HV data reporting, SSP2 & Background tissue analyses) and planning for CSO/SWO and RM 10.9 coverage.

### 2.2.2 CPG Planning Documents Review

- No activity.

## **WAD 2, Work Order 3 – Field Work Sampling Oversight**

### 2.3.1 CDM Smith Work Plan Preparation (QAPP & HASP)

- No activity.

### 2.3.2 Water Column, Chemical Data Oversight

- Continued validation of first round of high volume split sample data.
- Continued split sample evaluation of CWCM routine data sets and began preparing and reviewing report tables.
- Discussed preliminary results of second round of high volume split samples with analytical laboratory.
- Paid laboratory invoices (Shealy Environmental and Axys Analytical).

### 2.3.3 RM 10.9 Oversight

- Work element closed. See WAD 2 WO 7 for RM 10.9 oversight work.

### 2.3.4 LRC Supplemental Sampling Oversight

- Paid Axys subcontract invoice retainage.

### 2.3.6 Background Sampling Oversight

- Initiated validation of Background split tissue sample data.

#### 2.3.7 LRC SSP2 Oversight

- Reviewed CPGs revised SSP2 locations and probing data results against field oversight observations and EPA proposed locations and partner agency notes on CPG's initial SSP2 proposed locations.
- Prepared comments on revised CPG proposed SSP2 locations.

### **WAD 2, Work Order 4 – Report/Products: Oversight and Communications**

#### 2.4.1 CPG Report Review

- No activity.

### **WAD 2, Work Order 5 – Data Manager**

#### 2.5.1 Data Manager (Data/ Information Transfer)

- Generated additional summary tables of historical data sets for QC review of valid value associations.
- Ongoing improvement of data normalization across historical data sets as needed.
- Began to upload and review of SV CWCM high flow data received from CPG to Passaic River Database.
- Began upload and review of CWCM high volume event #1 data received from CPG to Passaic River Database.
- Initiated full database review as part of initial preparation for transferring a copy of the full database to the CPG.

#### 2.5.2 Database and Website Management

- Ongoing webpage support /and Enterprise interface support.
- Continued to provide webpage management support updating pages and announcements at the direction of the EPA.

### **WAD 2, Work Order 6 – CSO/SWO Sampling Oversight**

#### 2.6.1 Planning Documents Review

- On July 02, 2013, participated in a conference call with EPA and Tierra to discuss status of the solids sample and had initial discussion regarding paper like solids versus fine sediments identified during collection of the centrifuged sample.
- Reviewed CSO /SWO June QAPP modifications and provided comments to EPA on July 12, 2013.
- On July 17, 2013, participated in a conference call with EPA and Tierra for follow-up conversation regarding the paper like solids versus fine sediments identified during collection of the centrifuged sample. A sampling /analysis strategy was discussed; a field modification will be issued. Comments provided on the previous QAPP modifications were also discussed.
- Reviewed PVSC comments on the CSO /SWO prior to call.
- On July 24, 2013, participated in a conference call to discuss the PVSC comments on the CSO /SWO with EPA and Tierra.

#### 2.6.2 CDM Work Plan Preparation

- No activity.

### 2.6.3 Laboratory Analysis and Coordination

- No activity.

### 2.6.4 Field Oversight and Collection of Split Samples

- Performed field oversight on July 1 and 2, 2013 of the Phase I sampling at Clay Street.
- Performed oversight of the equipment decontamination on July 11, 2013 and collection of the equipment blank on July 15, 2013.

### 2.6.5 Split Sample Comparison Report

- No activity.

## **WAD 2, Work Order 7 – RM 10.9 Removal Action Oversight**

### 2.7.1 Report Review / Technical Support

- On July 10, 2013, submitted comments from Sea Engineering, Inc. on the Pre-Dredge Survey Calibration & QC SOP.
- On July 15, 2013, submitted comments on the SV CWCM QAPP Addendum A for the RM 10.9 Water Quality Monitoring.
- On July 16, 2013, submitted comments on the removal action operational plans.
- On July 18, 2013, submitted comments on the CPG Response to RM 10.9 Design Comments.
- On July 24, 2013, submitted comments from Sea Engineering, Inc. on the completed pre-dredge bathymetry survey.
- Paid HDR invoice for RM 10.9 work.

### 2.7.2 Remedial Action Oversight

- On July 12, 2013, performed oversight of the mobilization of the pre-dredge bathymetry survey.
- On July 25, 2013, participated in oversight planning call with EPA.
- On July 17 and 25, 2013, participated in meetings with the CPG to discuss dredging mobilization.

### 2.7.3 Sampling Analysis

- No activity

## **WAD 3, Work Order 1 - Modeling Support**

- Project Management & Support
  - No activity.
- Bi-Weekly Conference Calls
  - No activity.
- Project Review Conf Calls & Mod Meetings
  - No activity.
- Transfer of Model Codes/Support
  - A. ECOMSEDZLJS Model Support
    - No activity.
  - B. ST-SWEM & RCATOX Models
    - No activity.

C. Misc. Support 2010

- Review of CPG sediment transport codes used to generate the trajectory results presented to EPA. We determined that there were a number of issues with the codes and made suggestions for approaches to fix them. In general the issues were related to the output information saved by the model and not related to errors in the model calculations.
- Field Oversight
  - July 24, 2013 call to discuss the 17 mile RI data analysis
  - Sea Engineering, Inc. review of CPG's 2011 and 2012 Passaic River bathymetry survey reports.
- Modeling Oversight
  - Review of Fate and Transport Modeling – Review of CPG trajectories presented to the EPA and determine what sediment transport, and carbon results were used to generate them. This required looking at the sediment transport results they have sent us along with a number of phone conversations with both Moffat and Nichol and AQEA, to track down what they had used to produce their trajectories. The summary of that information was emailed to EPA on July 19, 2013 (copy to Frank Tsang, Sharon Budney, Scott Kirchner, Scott Thompson).

**WAD 3, Work Order 2 - Modeling Collaboration with CPG**

- Project Management and Support
  - No activity.
- Weekly Conf Calls/ Meetings with CPG
  - July 23, 2013 conference call with Rafael Cañizares of Moffat and Nichol regarding wind wave re-suspension and sediment density differences across the sediment transport, carbon, and contaminant models.
- Monthly Technical Meetings
  - No activity.
- Identify Model Differences
  - No activity.
- Data Action Items
  - No activity.
- Model Action Items
  - Investigate the potential impact of the errors found in the Hackensack, and other ADCP compass data, relative to model computed results.
- Communication with USEPA Project Team
  - No activity.

**WAD 4, Work Order 3 – Review/Coordinate CPG Risk Assessment**

- No activity.

**WAD 5, Work Order 2 – Data Evaluation**

- On July 24, 2013, participated in a webinar with EPA to discuss:
  - Ecological risk EPC tables.

- Human health risk EPC tables and TEQ results generated from EPA calculations worksheet. Follow-up work will be calculating a total TEQ for all WHO dioxin like congeners and calculating a TEQ for all non-dioxin like PCB congeners.
  - Initiate discussion regarding ProUCL calculation of mean when a sample has few detect (positive) results.
  - Presented a more comprehensive 3D model expanding from the concept model to include the length of the river.
  - Continued to work on detailing 3D model.
  - Continued incorporating GIS layers received from CPG into CDM Smith GIS.
  - Continued to formulate data presentation plans and evaluate potential approaches to better visualize and demonstrate site conditions.
  - Created additional detailed river segment figures for sediment concentrations of TCDD illustrating the different interpolation methods throughout the study area using three different sets of comparison criteria.
  - Generated total PCB, total dioxin and total PAH values from database by event for inclusion in the EPC tables. This was necessary because the total values as reported from the laboratory were not adjusted after validation. This need was identified in past CPG reports. Some hours representing this work were transferred from Task 2.5.2 Database and Website Management.
  - Generated draft Human health risk EPC tables for sediments, surface water and tissue samples for select contaminants.
  - Generated draft TEQ results from EPA calculations worksheet for sediments, surface water and tissue samples for select contaminants.
  - Generated draft exceedance tables for human health risk assessment evaluation.
2. **Anticipated Problems and Recommended Solutions** – None.
  3. **Problems Resolved** – N / A.
  4. **Upcoming Events/Activities Planned** – CDM Smith will continue working on the following activities:
    - Participate in biweekly calls.
    - Review CPG and Tierra documents when received.
    - Continue database management data upload.
    - Provide support on CSO/SWO oversight.
    - Provide support on RM 10.9 oversight.
    - Continue to formulate data presentation plans.
  5. **Key Staffing Changes** – None
  6. **Budget** – See attached cost spreadsheet for negotiated budget, funded amount, and expenditure details.



## 7. Deliverables Submitted

(For deliverables submitted prior to January 3, 2013, please see the April 2013 and earlier monthly reports.)

Title	Date Submitted
Submitted comments on River Mile 10.9 90 Percent Design	January 3, 2013
Submitted comments on RM 10.9 QAPP Addendum D	January 23, 2013
Submitted CDM Smith Field Change Request #13 - oversight of CPGs QAPP Addendum D Field Effort	February 13, 2013
Submitted comments on Updated Porewater SOPs RM 10.9 QAPP Addendum D	February 19, 2013
Submitted comments on Tierra's Validated Rinse Blank Results for the CSO/SWO sampling program	February 28, 2013
Submitted comments on Porewater SOP RM 10.9 QAPP Add D	March 1, 2013
Submitted comments on Draft Final RM 10.9 Design	March 22, 2013
Submitted comments on GW Seepage Measurement Field Mod	March 25, 2013
Submitted comments on CSO/SWO QAPP Revision 2	April 4, 2013
Submitted comments on RM 10.9 design draft WQMP	April 24, 2013
Submitted comments on Fall 2009 Benthic Invertebrate Community Survey and Benthic Field Data Collection, dated April 12, 2013	April 24, 2013
Submitted comments on Habitat Identification Survey Data Report, Fall 2010 Field Effort, dated April 12, 2013	April 24, 2013
Submitted comments on RM 10.9 Draft Water Quality Monitoring Plan	April 26, 2013
Submitted comments on RM 10.9 Removal Action Final Design Report	May 17, 2103
Submitted comments on RM 10.9 Draft Perimeter Air and Noise Monitoring Plan	May 23 & 28, 2013
Submitted comments on RM 10.9 Waterline Setback	May 24, 2013
Submitted comments on Tierra CSO/SWO Forensic Sample Results	May 16, 2013
Submitted comments on CPG Field Modification Form 130522-1 SSP2 Sediment Probing	May 29, 2013
Submitted comments on RM 10.9 Cap Design Review & Waterfront Development Permit Equivalent Conditions	June 3, 2013
Submitted comments on CSO-SWO LSM Method Blank Evaluation Report dated May 23, 2013	June 10, 2013
Submitted CDM Smith Field Change Request #14 – HV CWCM filtrate sample	June 12, 2013
Submitted comments on the RM 10.9 Final Design Response to Comments	June 13, 2013
Submitted comments on the RM 10.9 Final Design LTMM	June 13, 2013
Submitted comments on Pre-Dredge Bathymetry Survey Calibration & QC SOP	July 10, 2013
Submitted comments on Tierra's CSO/SWO QAPP Field Modifications dated June 6, 2013	July 12, 2013

<b>Title</b>	<b>Date Submitted</b>
Submitted comments on SV CWCM QAPP Addendum A WQM	July 15, 2013
Submitted comments on RM 10.9 Removal Action Operational Plans	July 16, 2013
Submitted comments on Response to RM 10.9 Design Comments	July 18, 2013
Submitted comments on Complete Pre-Dredge Bathymetry Survey	July 24, 2013